## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Molisch et al.

Title: RF SIGNAL PROCESSING IN MULTI-ANTENNA SYSTEMS

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Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

INFORMATION DISCLOSURE STATEMENT

#### MERL-1478

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

- X 1.97(b) This Information Disclosure Statement is filed:
  - (1) Within three months of the filing date of a national application; OR
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  - (3) Before the mailing of a first Office Action on the merits.

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- \_\_ 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:
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- (2) Petition is hereby made under 37 CFR
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- (3) Authorization to charge the petition fee of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

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Respectfully submitted,

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By:

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Attorney for Assignee

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Enclosures

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#### Form PTO-1449 (modified 2/91) U.S. DEPT OF COMMERCE Patent and Trademark Office Attorney Docket Number: Seria MERL-1478 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Applicant: Molisch et al. Filing date: Group Herewith

# U.S. PATENT DOCUMENTS Exam-Patent number ~ Subclass Filing date iner if appropriate FOREIGN PATENT DOCUMENTS Document number Subclass Translation YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Telatar et al., "Capacity of Multi-Antenna Gaussian Channels," European Trans. on Telecomm., Vol. 10, No. 6, pp. 585-596, November-December 1999 Tarokh et al., "Space-Time Codes for High Data Rate Wireless

Communication: Performance Criterion and Code Construction, " IEEE Trans. Inform. Theory, Vol. 44, pp. 744-765, March 1999 al., "Capacity Molisch of MIMO Systems with Antenna Selection," Proc. IEEE Intl. Comm. Conf., pp. 570-574, 2001 Shiu et al., "Fading Correlation and Its Effect on the Capacity of Multi-element Antenna Systems," IEEE Trans. Commun., Col. 48, pp. 502-513, March 2000 Tse et al., "Capacity Scaling in Dual-Antenna-Array Wireless Systems", IEEE Trans. Inf. Theory, June 2000, submitted Date Considered: Examiner:

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